

CPM+ CONCRETE PRODUCTS MACHINE

THE PROVEN TECHNOLOGY AND SUCCESS OF THE CPM, MADE BETTER WITH THE CPM+

The CPM+ Concrete Products Machine design builds upon the success of the previous generation of the CPM concrete product machines. The original CPM has been operating in plants worldwide since 1995. Over the years, Columbia Machine has seen changes in the industries we serve. These changes have put increasing demands upon production plants and the CPM+ is designed to meet those demands.



BENEFITS

• Easy to Operate

- User-friendly HMI /Compact Logix
- All machine adjustments made from HMI
- Full menu screens for quick machine setup

• Product-to-Product

- Mold with Height change - Fully automatic
- Recipe driven product changeover
- 1-push button production setup
- Tool-less agitator and strike-off plate removal

• Height Control

- Industry leading height control accuracy, every time - No adjustments needed
- Proven CVT ensures finished product consistency

• Head & Mold Alignment

- Patented head and mold alignment dowels, results in quality product and longer mold life

• Mold Change

- Mold extractor presents mold for faster, easier and safer mold change
- Automatic mold change in less that 4 minutes



CPM+ SERIES CONCRETE PRODUCTS MACHINE SPECIFICATIONS

FEATURE	DETAIL	CPM+30	CPM+40	CPM+50	CPM+60
Dimensions	Width	165" (4267mm)	165" (4267mm)	165" (4267mm)	188" (4775mm)
	Height	134" (3403mm)	134" (3403mm)	134" (3403mm)	134" (3403mm)
	Length	174" (4419mm)	174" (4419mm)	174" (4419mm)	174" (4419mm)
Weight	Center Section	31,130 lbs (14,120kg)	31,130 lbs (14,120kg)	31,130 lbs (14,120kg)	33,500 lbs (15,765kg)
	Rear Section	8000 lbs (3628kg)	8000 lbs (3628kg)	8000 lbs (3628kg)	9000 lbs (4082kg)
Pallet Sizes	Length (Min)	18.5" (470mm)	18.5" (470mm)	18.5" (470mm)	18.5" (470mm)
	Length (Max)	27.5" (700mm)	27.5" (700mm)	27.5" (700mm)	27.5" (700mm)
	Width (standard)	26" (660mm)	37" (940mm)	42" (1070mm)	55.1" (1400mm)
	Standard Thickness	0.31" (8mm)	0.38" (10mm)	0.44" (11mm)	0.50" (13mm)
Product Height	Height (Min)	0.75" (19mm)	0.75" (19mm)	0.75" (19mm)	0.75" (19mm)
	Height (Max)	12" (305mm)	12" (305mm)	12" (305mm)	12" (305mm)
Controls & Operator Interface	CommandView	x	x	x	x
	Allen-Bradley PLC	x	x	x	x
	24v DC Control Voltage	x	x	x	x
	120v AC Hydraulic Valve Coils	x	x	x	x
	Color Touchscreen Operator Interface	x	x	x	x
	Starter Panel, Motor Starters & Circuit Breakers	x	x	x	x
Vibrator	Vibrator Electric Variable Frequency Vibrator Drive - 2 x 25HP (18.5 kW)	x	x	x	x
Hydraulics	Main Pump Capacity Flow 60 Hz	70gpm (265lpm)	70gpm (265lpm)	70gpm (265lpm)	98gpm (371lpm)
	50 Hz	58gpm (220lpm)	58gpm (220lpm)	58gpm (220lpm)	81gpm (307lpm)
	Motor Size	2(40 HP) (30 kW)	2(40 HP) (30 kW)	2(40 HP) (30 kW)	2(50 HP) (37 kW)
	System Pressure	1800psi (122 bar)	1800psi (122 bar)	1800psi (122 bar)	1800psi (122 bar)

Key Features

Forced Oil Lubrication
 1.5 HP (1.2 kW)
 Laser Feed Drawer Probe
 Walking Beam Pallet Infeed/Outfeed
 Isolated Feed Drawer Section
 Hydraulic Linear Agitator
 Remote Valve Stand
 Electronic Product Height Control
 Automatic Density Control
 Standard Safety Package
 Electrically Interlocked Perimeter Guarding
 Lockable Phase Disconnects
 Warning Light, Horn, Time Delay

Common Options

Front Feed Drawer, Core Puller,
 Automated Mold-Change System,
 High Capacity Main Pump